

553,069

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/091618 A1

(51) International Patent Classification⁷: A61K 31/47, C07D 215/18

(21) International Application Number: PCT/US2004/011211

(22) International Filing Date: 12 April 2004 (12.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/462,941 15 April 2003 (15.04.2003) US

(71) Applicants (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). MERCK FROSST CANADA & CO. [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CHOU, Jun-Hong [CN/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). GENTZLER, Michael, B. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). MICHAELS, James, N. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). WU, Michael, Guojie [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). BAZIN, Cynthia [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA). CLAS, Sophie-Dorothee [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA). DALTON, Chad [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA).

(74) Common Representative: MERCK & CO., INC.; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: POLYMORPHIC FORM OF MONTELUKAST SODIUM

(57) Abstract: The invention provides novel polymorphic form of montelukast sodium, as well as methods of using and pharmaceutical compositions containing said novel form. Also provided are montelukast sodium: acetonitrile solvates, which are intermediates in the formation of crystalline montelukast sodium.

WO 2004/091618 A1